Claims

1. A server for synchronizing at least one remote system with a master system,

    said server comprising: a communication unit for communicating with the master system and with the at least one remote system over a data network; and a control unit for: detecting files to be synchronized that are present in the master system but missing in the at least one remote system; comparing corresponding check sums of files of data to be synchronized, wherein receiving said check sums from the master system and from the at least one remote system; detecting corresponding files with different check sums; and initiating the transmission of said detected files from the master system to the at least one remote system.

2. The server according to claim 1,

    wherein

    the control unit is arranged to delete files to be synchronized that are
    present in the at least one remote system but missing in the master system.

3. The server according to claim 1,

    wherein

    the control unit is arranged to initiate the adjustment of file attributes of files
    to be synchronized and/or to initiate the adjustment of symbolic links and/or
    hard links.

4. The server according to claim 1,

    wherein

    the control unit is arranged to assign master system and remote system
    roles to computer systems based on a message received from a control
    station.

5. The server according to claim 1,

    wherein

    the control unit is arranged to send commands to the master system and to
    the at least one remote system, the commands contain a file classification
    specifying a group of files to be updated and request from the master
    system and the at least one remote system to reply a list of files complying
    with this file classification.

6.   The server according to claim 1,

wherein

the control unit is arranged for: receiving from the master system and from the at least one remote system a respective list of files to be updated; comparing the received lists; sending to the master system and to the at least one remote system a list of files that are filtered out; and requesting the calculation of check sums for these files.

7.   The server according to claim 1,

wherein

the control unit is arranged to request from the file systems of the master system and the at least one remote system to block the access to files to be updated until the data synchronization is finalized.

8.   The server according to claim 1,

wherein

the control unit is arranged to allocate the files to be updated to several file blocks and performing the data synchronization of each of said file blocks separately.

9.   The server according to claim 1,

wherein

the control unit is arranged for: requesting from the file systems of the at least one remote system to check for data inconsistency caused by the data

synchronization and to reply a list of inconsistent files; and performing again the data synchronization for the files of this list.

10. A method for synchronizing at least one remote system with a master system, wherein files to be updated are sent over a data network connecting the master system with the at least one remote system, the method comprising the steps of:

detecting files that are present in the master system, but missing in the at least one remote system;

sending check sums calculated for corresponding files to be synchronized to a comparison server;

detecting files with different check sums; and

initiating the transmission of said detected files from the master system to the at least one remote system.